



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/819,331	03/28/2001	Ramesh Varadaraj	PM 98.062	4238

7590

12/19/2002

ExxonMobil Upstream Research Company  
P.O. Box 2189  
Houston, TX 77252-2189

EXAMINER

TUCKER, PHILIP C

ART UNIT	PAPER NUMBER
----------	--------------

1712

DATE MAILED: 12/19/2002

5

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

819331

Applicant(s)

VARADARAJ

Examiner

P. TUCKER

Group Art Unit

1712

---The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address---

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

## Status

- ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- ☒ Claim(s) 1-77 is/are pending in the application.
- ☐ Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- ☒ Claim(s) 1-77 is/are rejected.
- ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- ☐ Claim(s) \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
  - ☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been received.
  - ☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.
  - ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).
- \*Certified copies not received: \_\_\_\_\_.

## Attachment(s)

- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s) 4 Interview Summary, PTO-413
- ☒ Notice of Reference(s) Cited, PTO-892 ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948 Other \_\_\_\_\_

Office Action Summary

Art Unit: 1712

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-77 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicants independent claims 1, 22 and 77 all teach thermally treating and thermally oxidizing, without giving any reaction conditions. It is not clear if a one degree change in temperature would be considered thermal heating, or if just exposure to air is considered oxidizing. Dependent claims fall herewith.

In claim 21, it is not clear what the viscosity is reduced in comparison to. In claim 74, aging is taught, but no length of time for such aging is given.

Art Unit: 1712

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 2, 16, 17, 19, 21, 22, 24-26, 30, 32, 65, 66, 68, 70, 71, 72, 77 are rejected under 35 U.S.C. 102(b) as being anticipated by Dill (5294353).

Dill teaches a solids-stabilized water in oil emulsion, for use in well treatment, which comprises silica, and diesel as the oil phase. An acid and silica are added to the oil, prior to emulsification (see example 1). Diesel oil is thermally treated, since it is formed from distillation of crude which is thermally treated at temperatures within the scope of the present invention.

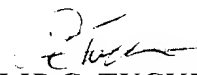
5. Claims 1, 16, 17, 22, 24, 65, 66, 77 are rejected under 35 U.S.C. 102(b) as being anticipated by Darley (3804760).

Darley teaches a solids-stabilized water in oil emulsion, for use in well treatment, which comprises particles of calcium carbonate, and diesel or kerosene as the oil phase (col. 6, lines 14-24). Diesel and kerosene oil are thermally treated, since they are formed from distillation of crude which is thermally treated at temperatures within the scope of the present invention.

Art Unit: 1712

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tucker whose telephone number is (703) 308-0529. The examiner's normal working hours are 7:30am-4:00pm, Monday-Friday. If necessary SPE Robert Dawson may be contacted at 703-308-2340. For inquiries of a general nature call the receptionist at 703-308-0651. The group FAX no. is 703-872-9310. The **after final** fax no. is 703-872-9311.

PCT-2696  
December 16, 2002

  
**PHILIP C. TUCKER**  
**ART UNIT 1712**